

Claims

1. A refuse collecting apparatus arranged on a refuse collection vehicle for lifting and emptying a waste bin into a waste container arranged on said refuse collection vehicle, said apparatus comprising:
- a frame member arranged on said refuse collecting vehicle,
 - a lifting and emptying mechanism secured to said frame member comprising a gripping and supporting mechanism for said waste bins,
 - a detecting means for obtaining at least one information relating to said waste bin,
 - a mechanism for monitoring at least one characteristic property related to said lifting mechanism,
 - a control unit for utilizing said at least one information for determining at least one criteria for lifting said waste bin, whereby arranging said waste bin on said lifting mechanism said at least one characteristic property is determined and compared to said criteria and based thereon the lifting mechanism is activated or not activated.
2. A refuse collection apparatus according to claim 1, wherein said lifting mechanism is electrically motor driven.
3. A refuse collection apparatus according to claim 1 or 2, wherein said mechanism for determining said at least one characteristic property is a measuring device for measuring change in the load of said lifting mechanism.
4. A refuse collection apparatus according to claim 1, 2 or 3, wherein said measuring of change in loading being either measurement of applied force to said electrical motor or said gripping and supporting mechanism.

5. A refuse collection apparatus according to claim 1, 2, 3 or 4, wherein said characteristic property monitored being the applied current to said electrical motor.
- 5 6. A refuse collection apparatus according to any one of the preceding claims, comprising further mechanism for monitoring a second characteristic property, is a weighing means.
- 10 7. A refuse collection apparatus according to any one of the preceding claims wherein said criteria being an upper weight limit allowed for said waste bin.
- 15 8. A refuse collection apparatus according to any of the preceding claims wherein said detecting means comprise an information reading device such as computer chip reader, bar-code reader or similar for reading information associated to said waste bin.
- 20 9. A refuse collection apparatus according to any of the preceding claims wherein said information being in the form of bar code, computer chip or similar arranged on said on said waste bin.
- 25 10. A refuse collection apparatus according to any of the preceding claims wherein said bar cod, computer chip or similar comprise such information as the upper weighing limit.
- 30 11. A refuse collection apparatus according to any one of the preceding claims, further comprising an alerting system integrated into said lifting mechanism, and wherein said alerting system is activated whenever the weight of said waste bin exceeds said upper weight limits.
12. A refuse collection apparatus according to any one of the preceding claims, further comprising a computer system.